

FILTER FOR COMBINED DE-RINGING AND EDGE SHARPENING

ABSTRACT OF THE DISCLOSURE

5 A filter for post-processing digital images and videos, having an edge
mapper, a pixel sorter, and an adaptive filter that simultaneously performs de-ringing and
edge sharpening. The combined filter is computationally simpler than known methods
and can achieve removal of ringing artifacts and sharpening of true edges at the same
time. The present invention also includes a preferred method of simultaneously de-
ringing and edge sharpening digital images and videos.